

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number  
**WO 2005/082089 A3**

(51) International Patent Classification<sup>7</sup>: **A61K 31/497**,  
31/445, C07D 211/30, 401/00

(21) International Application Number:  
PCT/US2005/006311

(22) International Filing Date:  
24 February 2005 (24.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/547,757 24 February 2004 (24.02.2004) US

(71) Applicant (for all designated States except US): **IRMLLC**  
[US/US]; P.O. Box HM 2899, Hamilton, HM LX (BM).

(71) Applicant and

(72) Inventor (for all designated States except US): **LU, Wen-shou** [CN/US]; 7548 Charmant Drive, #1414, San Diego, California 92122 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PAN, Shifeng** [CN/US]; 13880 Kerry Lane, San Diego, California 92130 (US). **MARSILJE, Thomas, H.** [US/US]; 1844 Narragansett Court, San Diego, California 92107 (US). **GAO, Wenqi** [CN/US]; 7958 Harmarsh Street, San Diego, California 92123 (US). **GRAY, Nathanael, Schiander** [US/US]; 5652 Lamas Street, San Diego, California 92122 (US). **HE, Yun** [US/US]; 10632 Senda Acuario, San Diego, California 92130 (US). **LIU, Yahua** [CN/US]; 7548 Charmant Drive, #1414, San Diego, California 92122 (US). **MI, Yuan** [CN/US]; 11175 Affinity Court, #45, San Diego, California 92131 (US). **XIE, Yongping** [US/US]; 12596 Brickella Street, San Diego, California 92129 (US).

(74) Agents: **REID, Scott, W.** et al.; The Genomics Institute of the Novartis Research Foundation, 10675 John Jay Hopkins Drive, San Diego, California 92121 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv))

**Published:**

— with international search report

(88) Date of publication of the international search report:

4 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMMUNOSUPPRESSANT COMPOUNDS AND COMPOSITIONS

(57) Abstract: The present invention relates to immunosuppressant, process for their production, their uses and pharmaceutical compositions containing them. The invention provides a novel class of compounds useful in the treatment or prevention of diseases or disorders mediated by lymphocyte interactions, particularly diseases associated with EDG receptor mediated signal transduction.



WO 2005/082089 A3